SERVICE MANUAL
M8025L/M8125L
Home stereo music system
BENYTONE

SPECIFICATIONS

• TUNER SECTION

Frequency range:	FM: 88 – 108 MHz MW: 525 – 1605 kHz LW: 150 – 300 kHz
Usable sensitivity:	FM: 5μV (IHF) MW: 300μV/m (IHF) LW: 600μV/m (IHF)
FM signal to noise ratio:	62 dB
FM THD (mono/stereo):	0.5/1%
FM frequency response:	60 – 12,000 Hz
FM separation:	36 dB (1 kHz)
Antenna:	FM: 300 ohm balanced terminal AM: Built-in ferrite-core antenna and external ANT socket

• AUDIO SECTION

Power output:	25 + 25 watts (RMS) 8 ohms load. 76 watts toal MUSIC power (IHF)
Frequency response:	40 – 15,000 Hz (–3 dB)
THD:	Less than 0.2% at 500mW (1 kHz) Less than 1.0% at rated output power
Input sens. and impedance:	PHONO: 2.5mV (50k ohms) AUX: 180mV (50k ohms) MIC: 2mV (600 ohms)
Load impedance:	SPEAKERS: 8 ohms HEADPHONES: 8 ohms
Output and load impedance:	TAPE-OUT: 300 mV/100k ohms
Tone control action:	BASS: 100 Hz ± 9 dB TREBLE: 10 kHz ± 9 dB
Loudness control effect:	100 Hz + 6 dB 10 kHz + 6 dB

• CASSETTE SECTION

Track system:	4-track 2-channel, stereo recording and playback
Tape speed:	4.75 cm/sec. (1-7/8 i.p.s.)
Wow and flutter:	0.15% (WRMS)
Signal to noise ratio:	60 dB (Dolby NR on, CrO_2 tape) 51 dB (Dolby NR off, CrO_2 tape)
Frequency response (Dolby NR off):	Normal tape: 63 – 12,500 Hz (±3 dB), (40 – 13,000 Hz) CrO_2 tape: 63 – 12,500 Hz (±3 dB), (40 – 14,000 Hz) FeCr tape: 63 – 12,500 Hz (±3 dB), (40 – 14,000 Hz) (Dolby NR on: ±5 dB)
Rec. system and bias freq.:	AC bias, 60 kHz
Erasing system:	AC erase

• RECORD PLAYER SECTION (M8125L only)

System:	2 speed belt drive
Motor:	4 pole synchronous motor
Speeds:	33-1/3, 45 r.p.m.
Wow and flutter:	0.15% (WRMS)
Signal to noise ratio:	45 dB
Cartridge:	Magnetic
Stylus pressure:	2 gr.

• DIMENSION

Center unit (mm):	M8025L: 607(W)x145(H)x360(D) M8125L: 607(W)x220(H)x420(D)

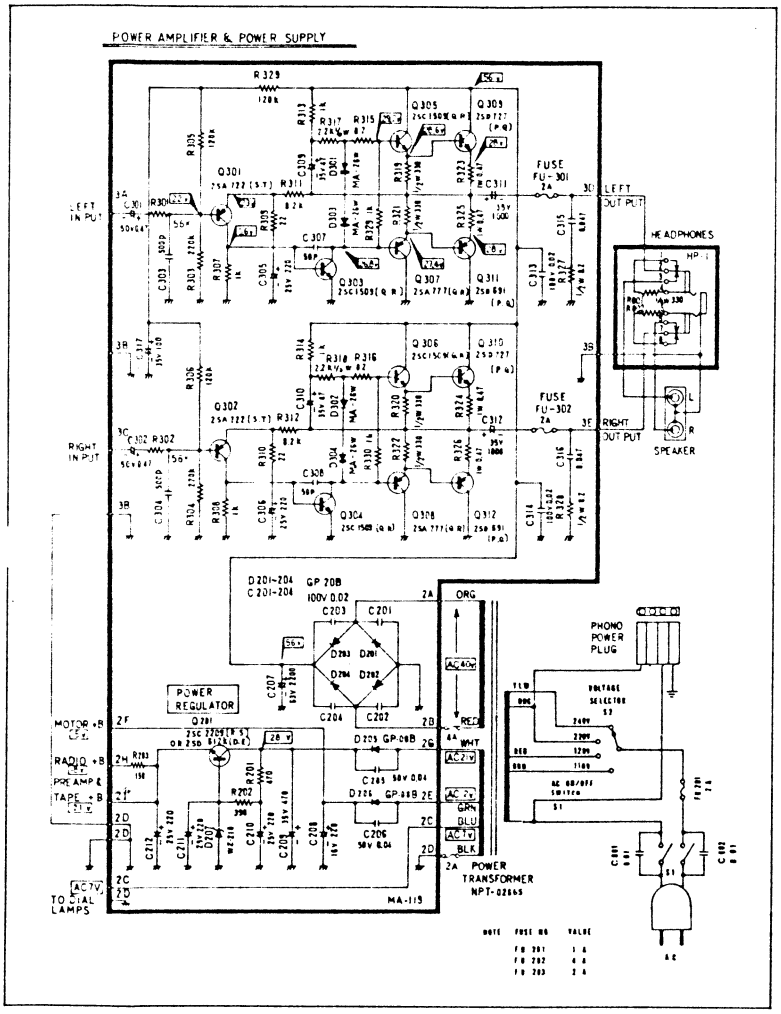
• WEIGHT

Center unit:	M8025L: 9.4kg. (20-3/4 lbs.) M8125L: 13.7kg. (30-1/5 lbs.)

- Dolby NR under license from Dolby Laboratories.
- The word "DOLBY" and the Double-D-Symbol are trademarks of Dolby Laboratories.

• SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

POWER AMPLIFIER & POWER SUPPLY (MA-119)



NOTE:

(1) ALL VOLTAGE READINGS WERE MADE UNDER NO SIGNAL CONDITIONS AND MAY VARY WITH A SIGNAL APPLIED.

(2) DC VOLTAGE MEASUREMENT WERE TAKEN WITH A HIGH IMPEDANCE INPUT VOLTMETER FROM THE POINT INDICATED TO THE CHASSIS GROUND. VOLTAGES MAY VARY ±20%.

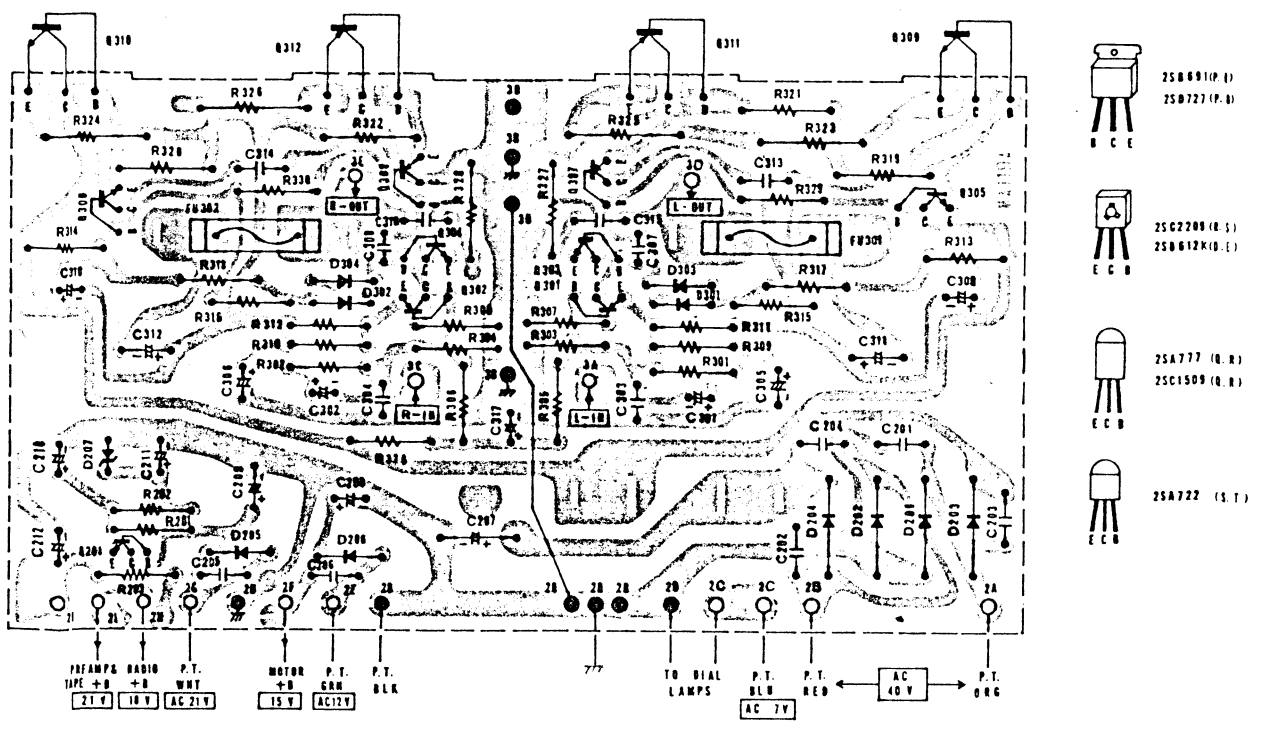
(3) THE SWITCHES ARE SHOWN IN THE FOLLOWING POSITION.

S1	AC ON/OFF SW	OFF
S2	VOLTAGE SELECTOR	220V
S3	FUNCTION SELECTOR	RADIO
S4	LOUDNESS SW.	OFF
S5	FM SW.	ON
S6	AUDIO MUTING SW.	OFF
S7	LW SW.	OFF
S8	MW SW.	OFF
S9	AFC SW.	OFF
S10	REC/PLAY SW.	PLAY
S11	TAPE SELECTOR	NORMAL

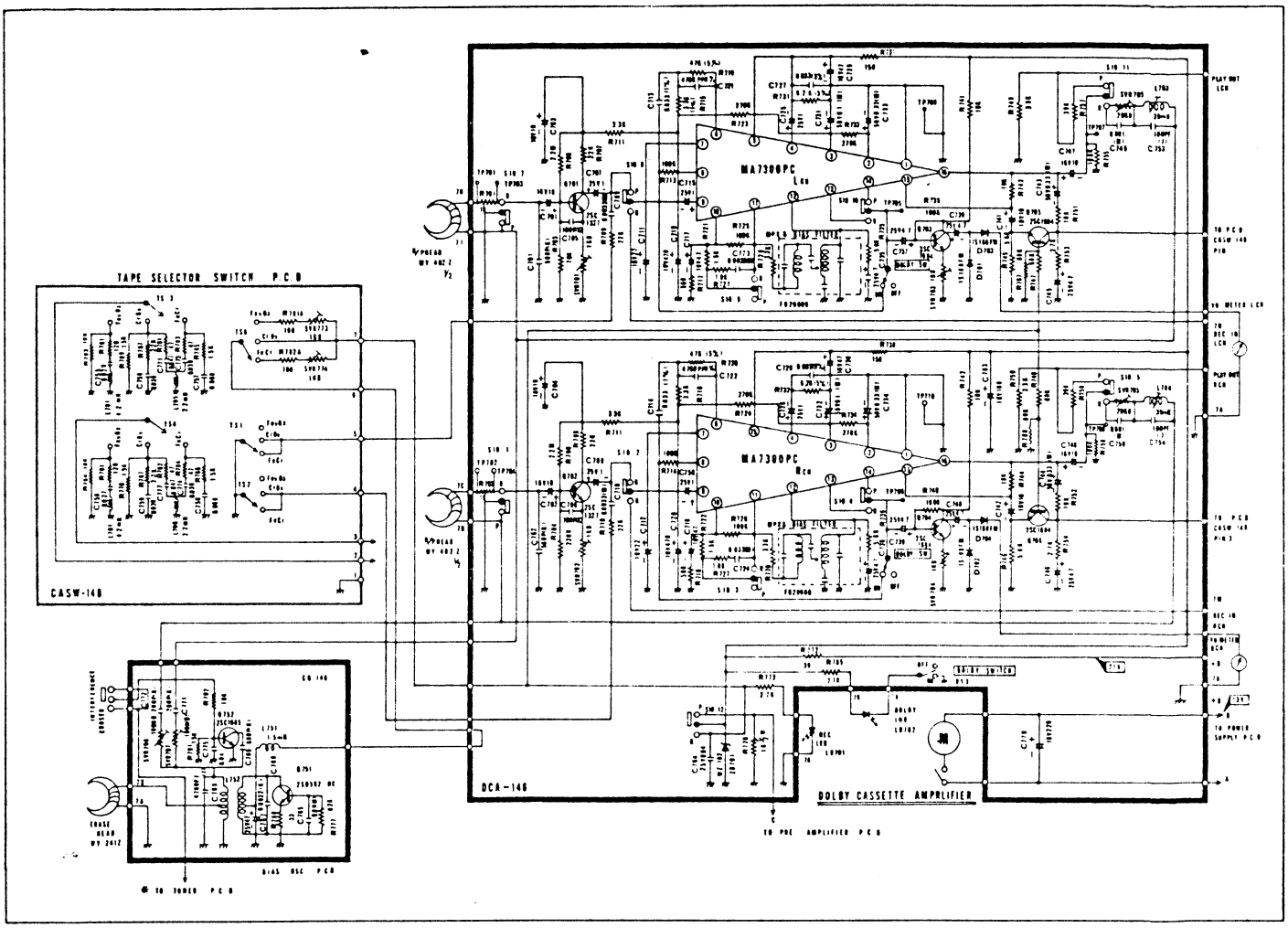
(4) UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/4 WATT, ±10% AND CAPACITORS IN μF.

(5) ⏚ THIS SYMBOL INDICATES GROUND.

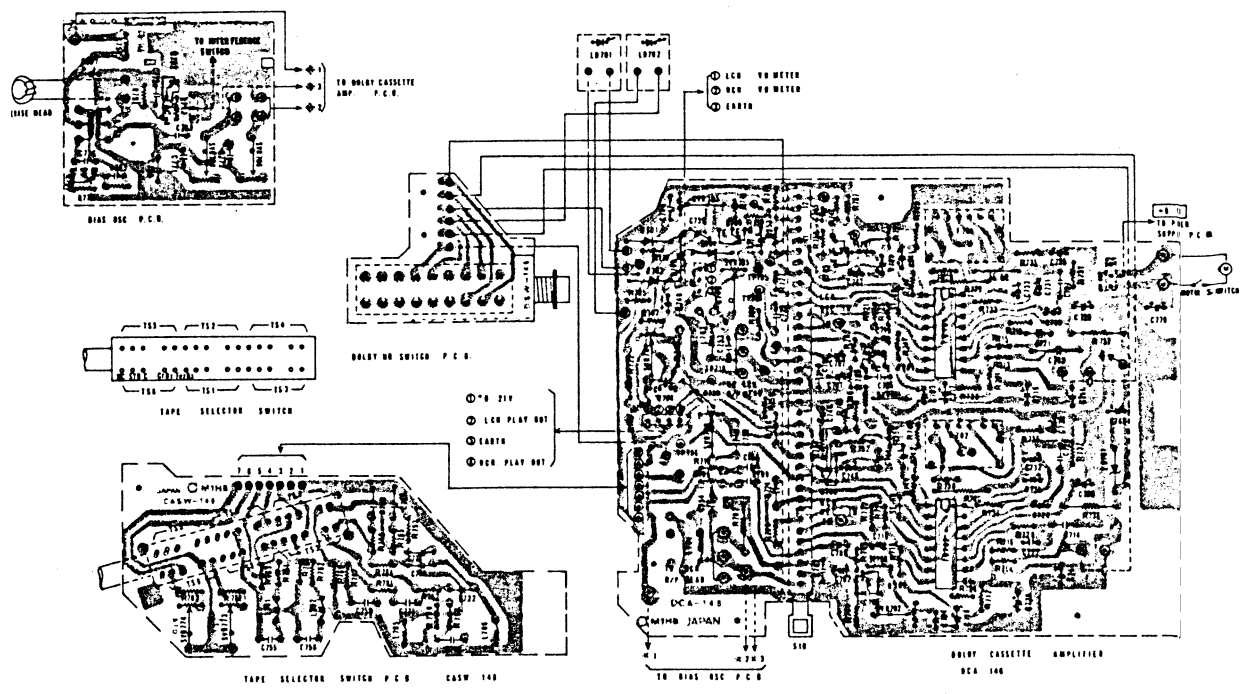
(FOIL SIDE)



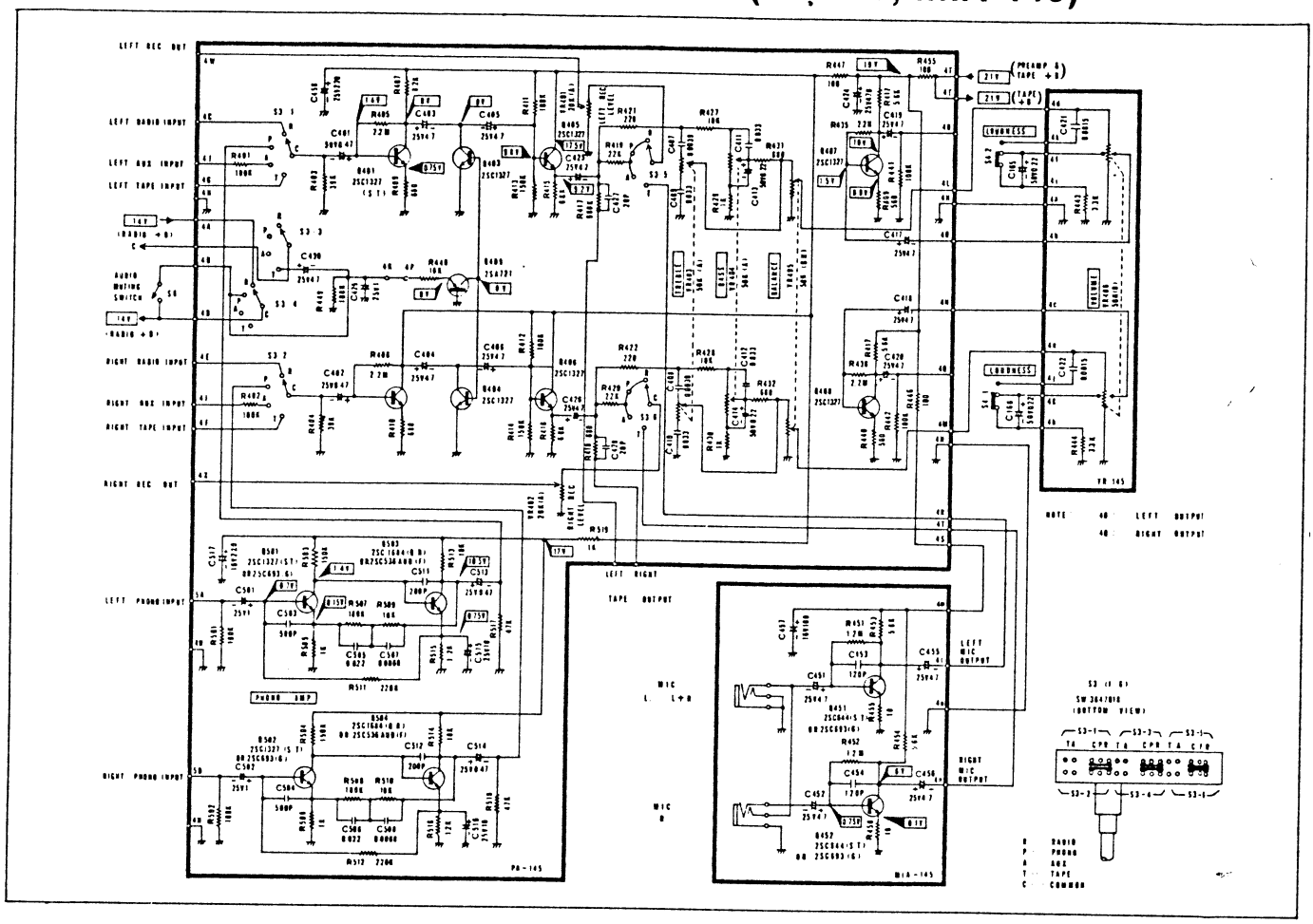
CASSETTE AMPLIFIER (DCA-146)



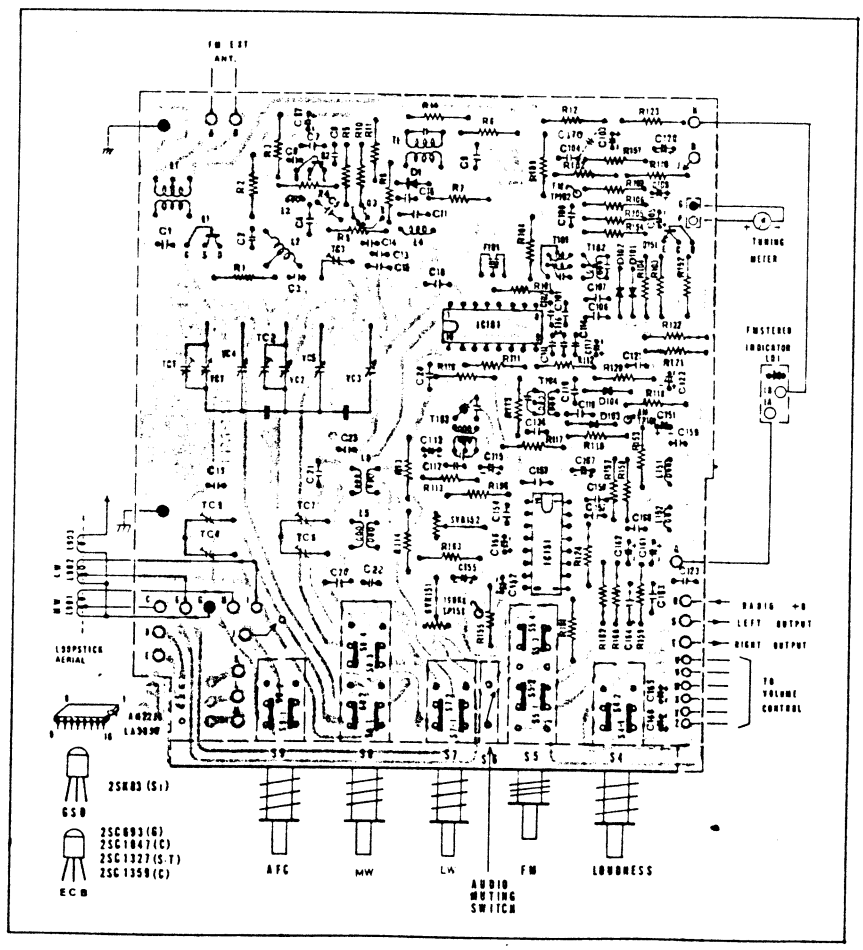
(FOIL SIDE)



PREAMPLIFIER & PHONO AMPLIFIER (PA-145, MIA-145)

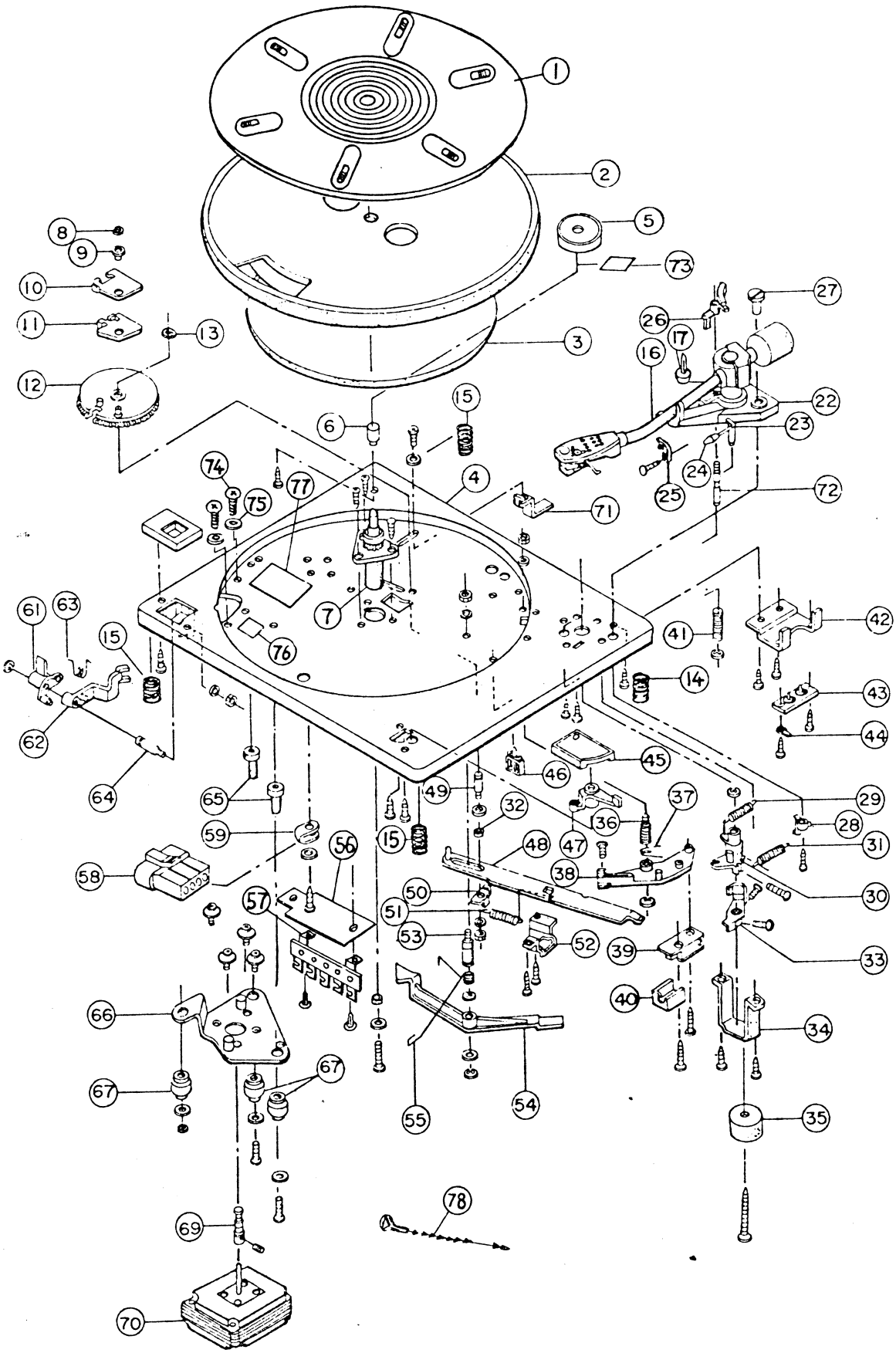


TUNER (TIM-118)

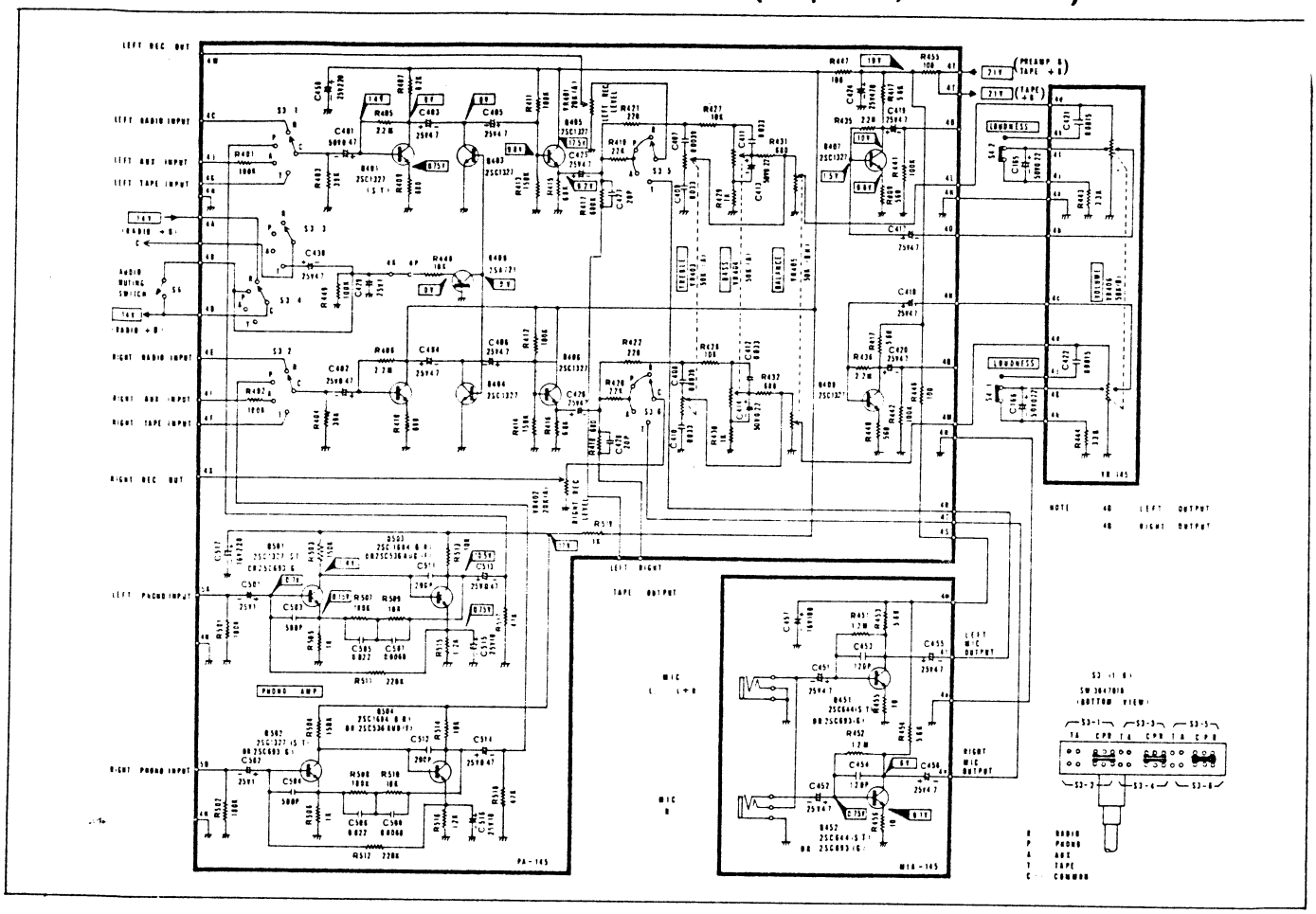


EXPLODED DIAGRAM (M8125L ONLY)

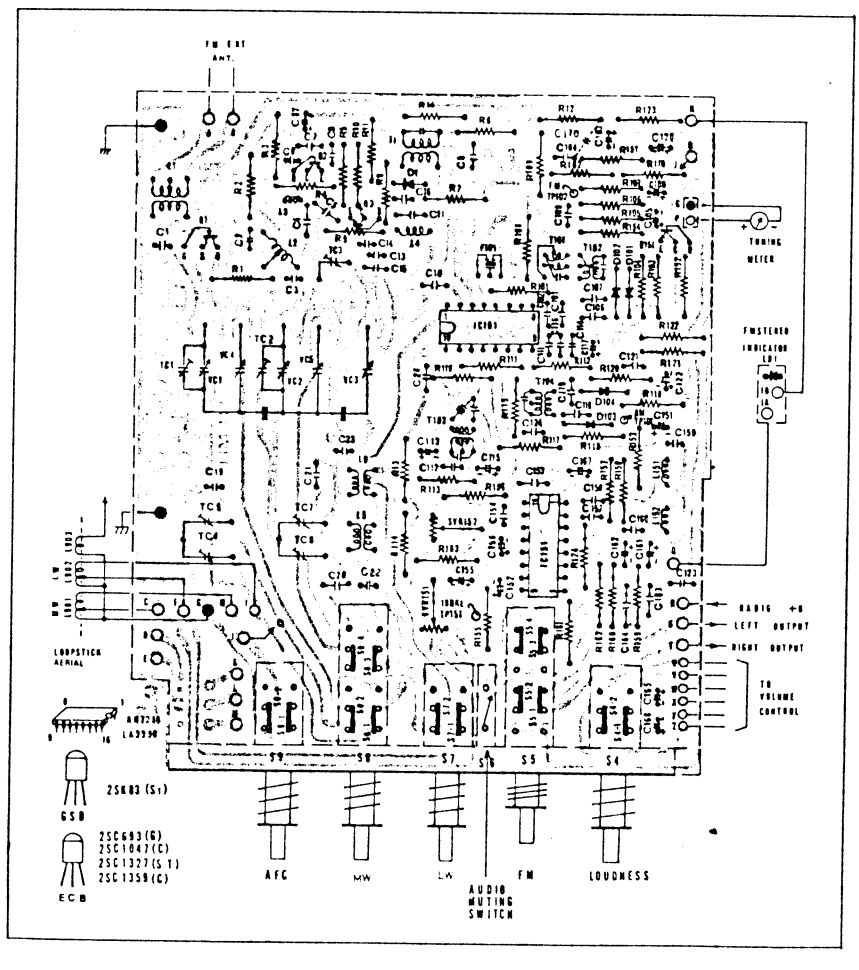
TURNTABLE MECHANISM (BD-55NB-4)



PREAMPLIFIER & PHONO AMPLIFIER (PA-145, MIA-145)

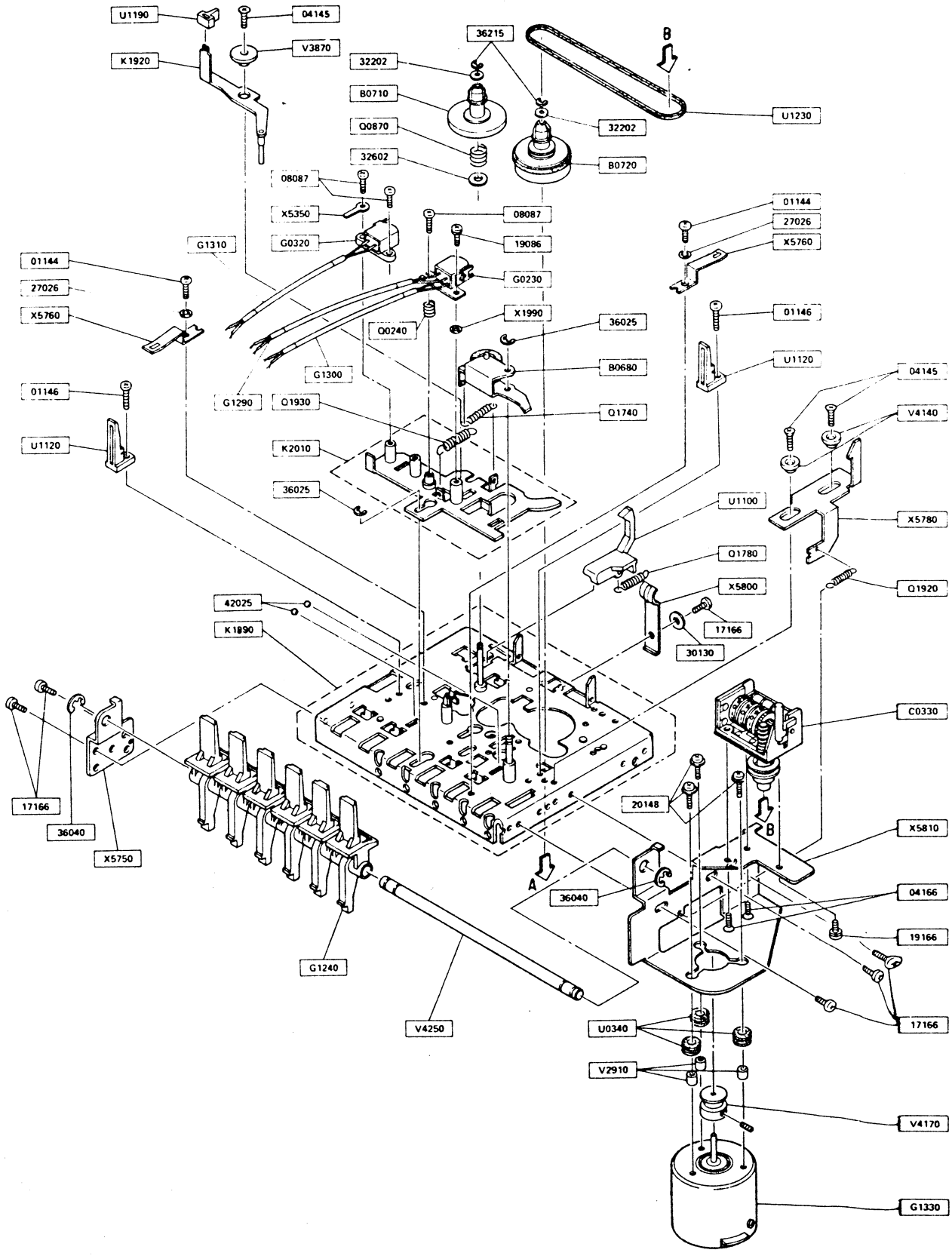


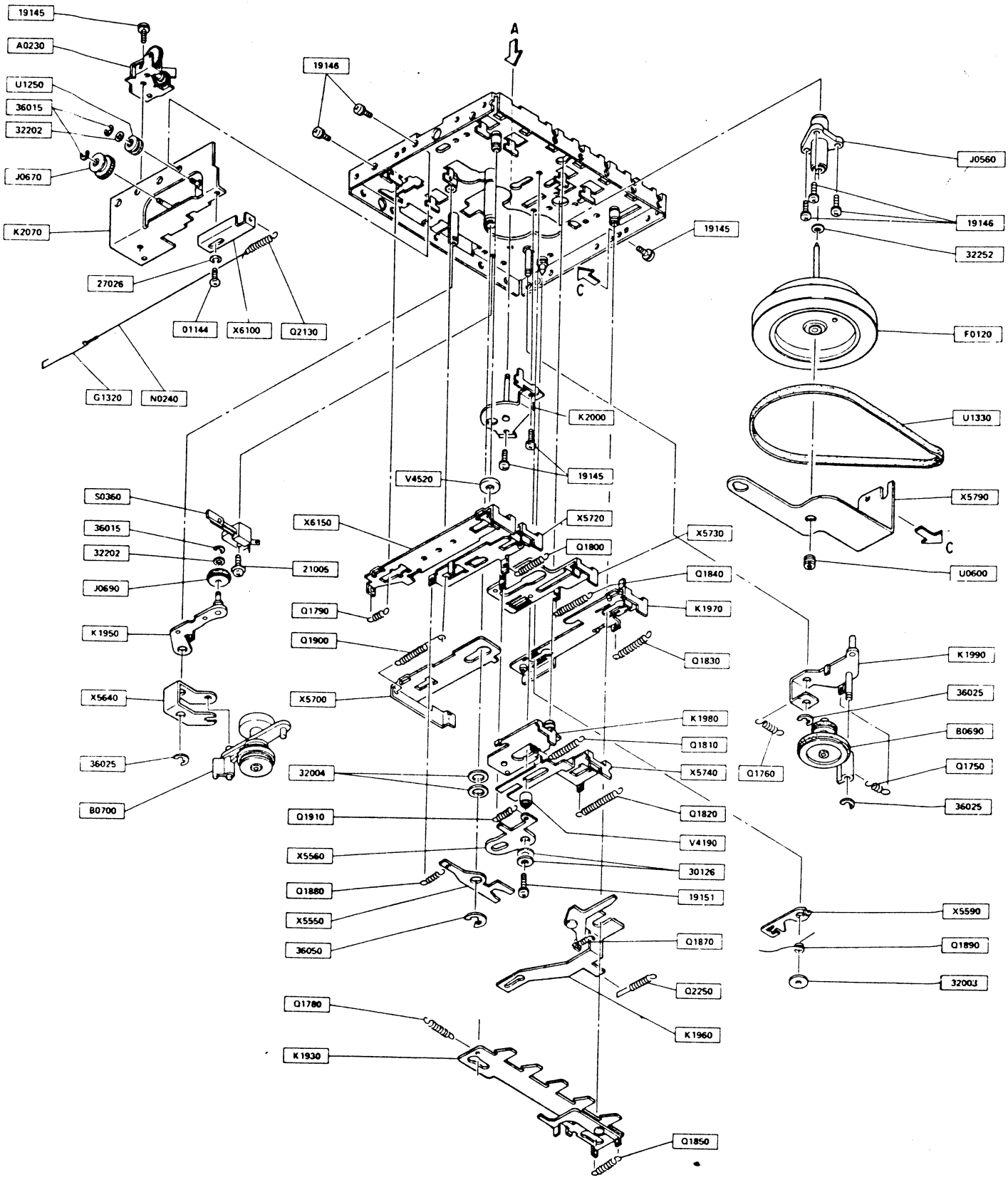
TUNER (TIM-118)



EXPLODED DIAGRAM

CASSETTE MECHANISM (CT-3709B)




19145
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J0670
K2070
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01144
X6100
Q2130
G1320
N0240
A
19146
19145
C
J0560
19146
32252
F0120
U1330
X5790
C
U0600
K2000
19145
V4520
X6150
X5720
X5730
Q1800
Q1840
K1970
Q1830
S0360
36015
32202
21005
J0690
K1950
Q1790
Q1900
X5700
X5640
36025
B0700
32004
Q1910
X5560
Q1880
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K1980
Q1810
X5740
Q1820
V4190
30126
19151
Q1870
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K1960
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